

AMENDMENTS TO THE CLAIMS

1 1. (Original) A method for selecting a victim to be used during resolution of a
2 deadlock, the method comprising the steps of:
3 initially establishing a plurality of resources involved in said deadlock as a set of
4 candidates to be said victim;
5 performing a first filtering pass that removes candidates from said set based on CAN-
6 BE-VICTIM flags associated with said candidates;
7 if more than a single candidate remains in said set after said first filtering pass, then
8 performing a second filtering pass that removes candidates from said set based
9 on priorities associated with said candidates; and
10 if more than a single candidate remains in said set after said second filtering pass, then
11 performing a third filtering pass that removes candidates from said set based on
12 runtimes associated with possessory entities associated with said candidates; and
13 when said set has been filtered to include a single candidate, selecting said candidate as
14 said victim.

1 2. (Original) The method of Claim 1 wherein at least a portion of the priority of a
2 given resource is established dynamically.

1 3. (Original) The method of Claim 2 wherein said portion is established based on
2 which other resources are held by a possessory entity associated with the given resource.

1 4. (Original) The method of Claim 1 wherein at least a portion of the priority of a
2 given resource is established statically.

1 5. (Original) The method of Claim 4 wherein said portion is established based on the
2 type of the given resource.

1 6. (Canceled)

1 7. (Previously Presented) A method for selecting a victim to be used during
2 resolution of a deadlock, the method comprising the steps of:
3 initially establishing a plurality of candidates involved in said deadlock as candidates to
4 be said victim;
5 filtering said plurality of candidates based on one or more factors until a single candidate
6 remains as a candidate to be said victim, wherein the step of filtering comprises
7 filtering each candidate of the plurality of candidates by taking into account, for
8 each candidate, at least one factor of the one or more factors;
9 selecting said single candidate as the victim to be used during resolution of said
10 deadlock; and
11 wherein the step of filtering further includes removing from said plurality of candidates
12 any candidates that have a CAN-BE-VICTIM flag that indicates the candidate
13 cannot be a victim.

1 8. (Currently Amended) A method for selecting a victim to be used during resolution of a
2 deadlock, the method comprising the steps of:
3 initially establishing a plurality of candidates involved in said deadlock as candidates to
4 be said victim, wherein the plurality of candidates are a plurality of possessory
5 entities involved in said deadlock;
6 filtering said plurality of candidates based on one or more factors until a single candidate
7 remains as a candidate to be said victim, wherein the step of filtering comprises
8 filtering each candidate of the plurality of candidates by taking into account, for
9 each candidate, at least one factor of the one or more factors;
10 selecting said single candidate as the victim to be used during resolution of said
11 deadlock; and
12 wherein the step of filtering further includes removing from said plurality of candidates
13 the candidates holding at least one resource whose resource priority is higher
14 than the resource priority of at least one resource held by at least one of the other
15 candidates.

- 1 9. (Previously Presented) The method of Claim 7 wherein the step of filtering
2 further includes removing from said plurality of candidates all the candidates that are
3 associated with possessory entities have been running for a duration of time that is
4 relatively longer than the duration of time that possessory entities associated with the
5 other candidates have been running.
- 1 10. (Canceled)
- 1 11. (Canceled)
- 1 12. (Canceled)
- 1 13. (Previously Presented) The method of Claim 7 wherein the step for filtering
2 further comprises the computer-implemented steps of:
3 performing a first pass to filter out any candidates that have a CAN-BE-VICTIM flag
4 indicating that one is not candidate for termination;
5 if more than one candidate is left after performing the first pass, then performing a
6 second pass to filter out any candidates whose resource priority is higher than the
7 resource priority of at least one of the other candidates;
8 if more than one candidate is left after performing the second pass, then performing a
9 third pass to filter out all the candidates except the candidate that has been
10 running for the shortest duration of time.
- 1 14. (Previously Presented) The method of Claim 7 wherein the step of filtering
2 includes filtering based on priorities established for said candidates.
- 1 15. (Original) The method of Claim 14 wherein at least a portion of the priority of a
2 given candidate is established dynamically.

1 16. (Original) The method of Claim 15 wherein said portion is established based on
2 which resources other than said candidate are held by a possessory entity associated with
3 the given candidate.

1 17. (Original) The method of Claim 14 wherein at least a portion of the priority of a
2 given candidate is established statically.

1 18. (Original) The method of Claim 17 wherein said portion is established based on the
2 type of the given candidate.

1 19. (Currently Amended) A computer-readable storage medium carrying instructions for
2 selecting a victim to be used during resolution of a deadlock, the computer-readable
3 medium comprising instructions for performing the steps of:
4 initially establishing a plurality of resources involved in said deadlock as a set of
5 candidates to be said victim;
6 performing a first filtering pass that removes candidates from said set based on CAN-
7 BE-VICTIM flags associated with said candidates;
8 if more than a single candidate remains in said set after said first filtering pass, then
9 performing a second filtering pass that removes candidates from said set based
10 on priorities associated with said candidates; and
11 if more than a single candidate remains in said set after said second filtering pass, then
12 performing a third filtering pass that removes candidates from said set based on
13 runtimes associated with possessory entities associated with said candidates; and
14 when said set has been filtered to include a single candidate, selecting said candidate as
15 said victim.

1 20. (Original) The computer-readable medium of Claim 19 wherein at least a portion of
2 the priority of a given resource is established dynamically.

1 21. (Original) The computer-readable medium of Claim 20 wherein said portion is
2 established based on which other resources are held by a possessory entity associated
3 with the given resource.

1 22. (Original) The computer-readable medium of Claim 19 wherein at least a portion of
2 the priority of a given resource is established statically.

1 23. (Original) The computer-readable medium of Claim 22 wherein said portion is
2 established based on the type of the given resource.

1 24. (Canceled)

1 25. (Currently Amended) A computer-readable storage medium carrying
2 instructions for selecting a victim to be used during resolution of a deadlock, the
3 computer-readable medium carrying instructions for performing the steps of:
4 initially establishing a plurality of candidates involved in said deadlock as candidates to
5 be said victim;
6 filtering said plurality of candidates based on one or more factors until a single candidate
7 remains as a candidate to be said victim, wherein the step of filtering comprises
8 filtering each candidate of the plurality of candidates by taking into account, for
9 each candidate, at least one factor of the one or more factors;
10 selecting said single candidate as the victim to be used during resolution of said
11 deadlock; and
12 wherein the step of filtering further includes removing from said plurality of candidates
13 any candidates that have a CAN-BE-VICTIM flag that indicates the candidate
14 cannot be a victim.

1 26. (Currently Amended) A computer-readable storage medium carrying
2 instructions for selecting a victim to be used during resolution of a deadlock, the
3 computer-readable medium carrying instructions for performing the steps of:
4 initially establishing a plurality of candidates involved in said deadlock as candidates to
5 be said victim, wherein the plurality of candidates are a plurality of possessory
6 entities involved in said deadlock;
7 filtering said plurality of candidates based on one or more factors until a single candidate
8 remains as a candidate to be said victim, wherein the step of filtering comprises
9 filtering each candidate of the plurality of candidates by taking into account, for
10 each candidate, at least one factor of the one or more factors;
11 selecting said single candidate as the victim to be used during resolution of said
12 deadlock; and
13 wherein the step of filtering further includes removing from said plurality of candidates
14 the candidates holding at least one resource whose resource priority is higher
15 than the resource priority of at least one resource held by at least one of the other
16 candidates.

1 27. (Previously Presented) The computer-readable medium of Claim 25 wherein the
2 step of filtering further includes removing from said plurality of candidates all the
3 candidates that are associated with possessory entities have been running for a duration
4 of time that is relatively longer than the duration of time that possessory entities
5 associated with the other candidates have been running.

1 28. (Canceled)

1 29. (Canceled)

1 30. (Canceled)

1 31. (Previously Presented) The computer-readable medium of Claim 25 wherein the
2 step for filtering further comprises the computer-implemented steps of:
3 performing a first pass to filter out any candidates that have a CAN-BE-VICTIM flag
4 indicating that one is not candidate for termination;
5 if more than one candidate is left after performing the first pass, then performing a
6 second pass to filter out any candidates whose resource priority is higher than the
7 resource priority of at least one of the other candidates;
8 if more than one candidate is left after performing the second pass, then performing a
9 third pass to filter out all the candidates except the candidate that has been
10 running for the shortest duration of time.

1 32. (Previously Presented) The computer-readable medium of Claim 25 wherein the
2 step of filtering includes filtering based on priorities established for said candidates.

1 33. (Original) The computer-readable medium of Claim 32 wherein at least a portion of
2 the priority of a given candidate is established dynamically.

1 34. (Original) The computer-readable medium of Claim 33 wherein said portion is
2 established based on which resources other than said candidate are held by a possessory
3 entity associated with the given candidate.

1 35. (Original) The computer-readable medium of Claim 32 wherein at least a portion of
2 the priority of a given candidate is established statically.

1 36. (Original) The computer-readable medium of Claim 35 wherein said portion is
2 established based on the type of the given candidate.

1 37. (Previously Presented) The method of Claim 8 wherein the step of filtering
2 further includes removing from said plurality of candidates all the candidates that are

3 associated with possessory entities have been running for a duration of time that is
4 relatively longer than the duration of time that possessory entities associated with the
5 other candidates have been running.

1 38. (Previously Presented) The method of Claim 8 wherein the step for filtering
2 further comprises the computer-implemented steps of:
3 performing a first pass to filter out any candidates that have a CAN-BE-VICTIM flag
4 indicating that one is not candidate for termination;
5 if more than one candidate is left after performing the first pass, then performing a
6 second pass to filter out any candidates whose resource priority is higher than the
7 resource priority of at least one of the other candidates;
8 if more than one candidate is left after performing the second pass, then performing a
9 third pass to filter out all the candidates except the candidate that has been
10 running for the shortest duration of time.

1 39. (Previously Presented) The computer-readable medium of Claim 26 wherein the
2 step of filtering further includes removing from said plurality of candidates all the
3 candidates that are associated with possessory entities have been running for a duration
4 of time that is relatively longer than the duration of time that possessory entities
5 associated with the other candidates have been running.

1 40. (Previously Presented) The computer-readable medium of Claim 26 wherein the
2 step for filtering further comprises the computer-implemented steps of:
3 performing a first pass to filter out any candidates that have a CAN-BE-VICTIM flag
4 indicating that one is not candidate for termination;
5 if more than one candidate is left after performing the first pass, then performing a
6 second pass to filter out any candidates whose resource priority is higher than the
7 resource priority of at least one of the other candidates;
8 if more than one candidate is left after performing the second pass, then performing a
9 third pass to filter out all the candidates except the candidate that has been
10 running for the shortest duration of time.